## **Claims listing:**

- 1. (currently amended) A body fluid sampling system for use on a tissue site, the system comprising:
  - a cartridge disposable;
  - a penetrating member driver;
- a plurality of penetrating members arranged in a radial configuration on the cartridge <u>disposable</u> wherein sharpened distal tips of the penetrating members point radially outward;

wherein an active one of said penetrating members may be operatively coupled to said penetrating member driver, said penetrating member driver moving said active one along a path out of a housing having a penetrating member exit, into said tissue site, stopping in said tissue site, and withdrawing out of said tissue site; and

a plurality of analyte detecting members, wherein at least one of said analyte detecting members is positioned to receive fluid from a wound created by said active one of said penetrating members, wherein said detecting members are not pierced by the active one of the penetrating members.

## 2. – 12. (cancelled)

- 13. (original) A system as in claim 1 further comprising a penetrating member sensor positioned to monitor a penetrating member coupled to said penetrating member driver, the penetrating member sensor configured to provide information relative to a depth of penetration of a penetrating member through a skin surface.
- 14. (original) The system of claim 13, wherein the depth of penetration is about 100 to 2500 microns.
- 15. (original) The system of claim 13, wherein the depth of penetration is 500 to 750 microns.

- 16. (original) The system of claim 13, wherein the depth of penetration is no more than about 1000 microns beyond a stratum corneum thickness of a skin surface.
- 17. (original) The system of claim 13, wherein the depth of penetration is no more than about 500 microns beyond a stratum corneum thickness of a skin surface.
  - 18. 20. (cancelled).
- 21. (original) The system of claim 1, wherein the driver is selected from one of the following: a voice coil, a rotary voice coil, a solenoid, a motor and gear box, a nanomuscle, or a combination of any of the above.
  - 22. 23. (cancelled).
- 24. (original) The system of claim 22, wherein the processor is utilized to monitor position and speed of a penetrating member as the penetrating member moves in a first direction.
  - 25. 26. (cancelled).
- 27. (original) The system of claim 22, wherein the processor is utilized to monitor position and speed of a penetrating member as the penetrating member moves in the first direction toward a target tissue, wherein the application of a launching force to the penetrating member is controlled based on position and speed of the penetrating member.
  - 28. -51. (cancelled).
- 52. (original) The system of claim 50, wherein the tissue stabilizer device is configured to apply a force to a target tissue and cause the target tissue to press in an inward direction relative to the housing member.
  - 53. (cancelled).

54. (currently amended) The system of claim 50, further comprising a second fracturable seal located at least one of the distal port or proximal port of cartridge disposable.

- 57. (original) The system of claim 1, wherein each penetrating member each penetrating members is an elongate member without molded attachments.
  - 58. 64. (cancelled).
- 65. (currently amended) A body fluid sampling system for use on a tissue site, the system comprising:
  - a cartridge disposable;
  - a penetrating member driver;
- a plurality of penetrating members arranged in a radial configuration on the cartridge disposable wherein sharpened distal tips of the penetrating members point radially outward;

wherein an active one of said penetrating members may be operatively coupled to said penetrating member driver, said penetrating member driver moving said active one along a path out of a housing having a penetrating member exit, into said tissue site, stopping in said tissue site, and withdrawing out of said tissue site; and

a plurality of analyte detecting members, wherein at least one of said analyte detecting members is positioned to receive fluid from a wound created by said active one of said penetrating members, wherein said detecting members are not pierced by the active one of the penetrating members;

a coupler on said penetrating member driver configured to engage at least a portion of said elongate portion of the penetrating member and drive said member along a path into a tissue site and withdrawn from a tissue site.